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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/891,472 06/27/2001		Akihisa Hongo	2001-0924A	1388
513	7590 07/23/2004		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			VALENTINE, DONALD R	
SUITE 800			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20006-1021			1742	· · · · · · · · · · · · · · · · · · ·

DATE MAILED: 07/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental Notice of Allowability

Application No.	Applicant(s)			
09/891,472	HONGO ET AL.			
Examiner	Art Unit			
Donald R. Valentine	1742 ON			

	Donald R. Valentine	1742	I ON I
The MAILING DATE of this communication appearable All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOR OF THE OFFICE OF UPON PETITION BY THE OFFICE OF UPON PETITION BY THE OFFICE OF THE OFFICE OFFI	OR REMAINS) CLOSED in a control or other appropriate commured GHTS. This application is su	this application. If not nication will be mailed i	included in due course. THIS
1. This communication is responsive to <u>11-18-03</u> .			
2. The allowed claim(s) is/are <u>13-24 and 40-47</u> .			
3. The drawings filed on are accepted by the Examiner			
 4. Acknowledgment is made of a claim for foreign priority unday a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of	been received. been received in Application cuments have been received	No in this national stage a	
noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	ENT of this application. Ited. Note the attached EXAN	MINER'S AMENDMEN	T or NOTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspersor 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the T. DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F.	t be submitted. on's Patent Drawing Review Amendment / Comment or in 84(c)) should be written on the se header according to 37 CFR sit of BIOLOGICAL MATE	(PTO-948) attached not the Office action of drawings in the front (in 1.121(d)).	not the back) of
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 021904 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ⊠ Interview Sur Paper No./N B), 7. ⊠ Examiner's A	fail Date mendment/Comment tatement of Reasons f	
		Donald R. Va Primary Exan Art Unit: 1742	niner

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Nils E. Pedersen, attorney of record, on July 20, 2004.

The application has been amended as follows:

In the first line of the amendment, filed November 18, 2003, the words "Claims 1-16 (Withdrawn)" have been changed to - - Claims 1-12 (Withdrawn) - -.

The following claims have been inserted after the first line of the amendment filed November 18, 2003:

- -13. An apparatus for forming interconnects by forming a copper film on a surface of a substrate to fill copper into fine recesses formed in the surface of the substrate, comprising:
 - a housing;
 - a transport route provided in said housing for transporting the substrate; and a copper-plating section, an electrolytic or chemical polishing section, and an
- annealing section which are disposed along said transport route.
- 14. The apparatus according to claim 13, further comprising a cleaning section provided in said housing for cleaning the substrate.

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- 15. The apparatus according to claim 13, wherein at least two of said electrolytic or chemical polishing sections are provided for carrying out a first-stage electrolytic or chemical polishing and a second-stage electrolytic or chemical polishing.
- 16. The apparatus according to claim 14, wherein at least two of said electrolytic or chemical polishing sections are provided for carrying out a first-stage electrolytic or chemical polishing and a second-stage electrolytic or chemical polishing. -

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald R. Valentine whose telephone number is 571-272-1250. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald R. Valentine Primary Examiner Art Unit 1742

drv July 20, 2004